### RANGE

### **AMICUS AIR TO WATER HEAT PUMPS**

### Model LAHP-8HT

EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	7.7
Total Power input (EN14511) <sup>1</sup>	kW	1.79
COP (EN14511) <sup>1</sup>	W/W	4.3
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		3.92
Seasonal Efficiency Low temperature	%	153.8
Energy Label Rating High temperature		A+
SCOP High Temperature		3.22
Seasonal Efficiency High temperature	%	125.6
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	230/1/50
Maximum input current standard unit	Α	17.1
Peak input current standard unit	Α	17.1
Fans	no	1
Compressors/refrigerant circuits	no	1 E.V.I. DC inverter
Sound power level 2	dB(A)	65
Sound pressure level 3	dB(A)	33.6
Flow/Return connections	inch	1"
Nominal flow rate	L/sec	0.39
Minimum water content in the user circuit	litre	100
DIMENSIONS		
Height	mm	1251
Length	mm	1208
Depth	mm	650
Weight	Kg	180

1-Ambient air +7 heating 30/35

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <a href="http://www.lochinvar.ltd.uk">www.lochinvar.ltd.uk</a>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

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#### ErP and Warranty

RANGE AMICUS AIR TO WATER HEAT PUMPS		Model
		LAHP-10HT
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	9.6
Total Power input (EN14511) <sup>1</sup>	kW	2.28
COP (EN14511) <sup>1</sup>	W/W	4.2
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		3.97
Seasonal Efficiency Low temperature	%	155.8
Energy Label Rating High temperature		A+
SCOP High Temperature		3.32
Seasonal Efficiency High temperature	%	129.8
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	230/1/50
Maximum input current standard unit	А	17.1
Peak input current standard unit	А	17.1
Fans	no	1
Compressors/refrigerant circuits	no	1 E.V.I. DC inverter
Sound power level 2	dB(A)	65
Sound pressure level 3	dB(A)	33.6
Flow/Return connections	inch	1"
Nominal flow	L/sec	0.41
Minimum water content in the user circuit	litre	100
DIMENSIONS		
Height	mm	1251
Length	mm	1208
Depth	mm	650
Weight	Kg	180

1-Ambient air +7 heating 30/35

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Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

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#### ErP and Warranty

## TECHNICAL PRODUCT SUBMITTAL

#### Model RANGE **AMICUS AIR TO WATER HEAT PUMPS** LAHP-15HT **EFFICIENCY DATA -Part L2** Heating Capacity (EN14511)<sup>1</sup> kW 15 Total Power input (EN14511)<sup>1</sup> kW 3.40 COP (EN14511)1 W/W 4.4 **EFFICIENCY DATA -ErP and Energy Label** Energy Label Rating Low temperature A++ SCOP Low Temperature 4.01 Seasonal Efficiency Low temperature % 157.3 Energy Label Rating High temperature A++ **SCOP High Temperature** 3.37 Seasonal Efficiency High temperature % 131.6 GENERAL Refrigerant R410A Power supply V/Ph/Hz 415/3+N/50 Maximum input current standard unit 15 А Peak input current standard unit А 15 2 Fans no Compressors/refrigerant circuits 1 E.V.I. DC inverter no Sound power level 2 dB(A) 67 35.5 Sound pressure level 3 dB(A) 1" Flow/Return connections inch Nominal flow L/sec 0.76 Minimum water content in the user circuit litre 200 DIMENSIONS Height 1450 mm Length mm 1402 Depth mm 650 Weight 270 Kg

1-Ambient air +7 heating 30/35

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Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

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#### ErP and Warranty

RANGE	Model LAHP-20HT	
AMICUS AIR TO WATER HEAT PUMPS		
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	19
Total Power input (EN14511) <sup>1</sup>	kW	4.50
COP (EN14511) <sup>1</sup>	W/W	4.2
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		4.02
Seasonal Efficiency Low temperature	%	157.8
Energy Label Rating High temperature		A++
SCOP High Temperature		3.42
Seasonal Efficiency High temperature	%	133.8
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	15
Peak input current standard unit	А	15
Fans	no	2
Compressors/refrigerant circuits	no	1 E.V.I. DC inverter
Sound power level 2	dB(A)	67
Sound pressure level 3	dB(A)	35.5
Flow/Return connections	inch	1"
Nominal flow rate	L/sec	0.87
Minimum water content in the user circuit	litre	200
DIMENSIONS		
Height	mm	1450
Length	mm	1402
Depth	mm	650
Weight	Kg	270

1-Ambient air +7 heating 30/35

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <a href="http://www.lochinvar.ltd.uk">www.lochinvar.ltd.uk</a>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

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#### ErP and Warranty

### **Key features:**

- Up to 65°C Output
- Low noise level

RANGE AMICUS AIR TO WATER HEAT PUMPS		Model
		LAHP-252HT
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	24
Total Power input (EN14511) <sup>1</sup>	kW	5.2
COP (EN14511) <sup>1</sup>	W/W	4.64
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		4.1
Seasonal Efficiency Low temperature	%	161
Energy Label Rating High temperature		A++
SCOP High Temperature		3.24
Seasonal Efficiency High temperature	%	126.5
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	20.6
Peak input current standard unit	А	62.9
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level <sup>2</sup>	dB(A)	70
Sound pressure level <sup>3</sup>	dB(A)	38
Flow/Return connections	inch	1¼"
Nominal flow rate	L/sec	1.14
Minimum water content in the user circuit	litre	240
DIMENSIONS		
Height	mm	1468
Depth	mm	1915
Width	mm	875

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

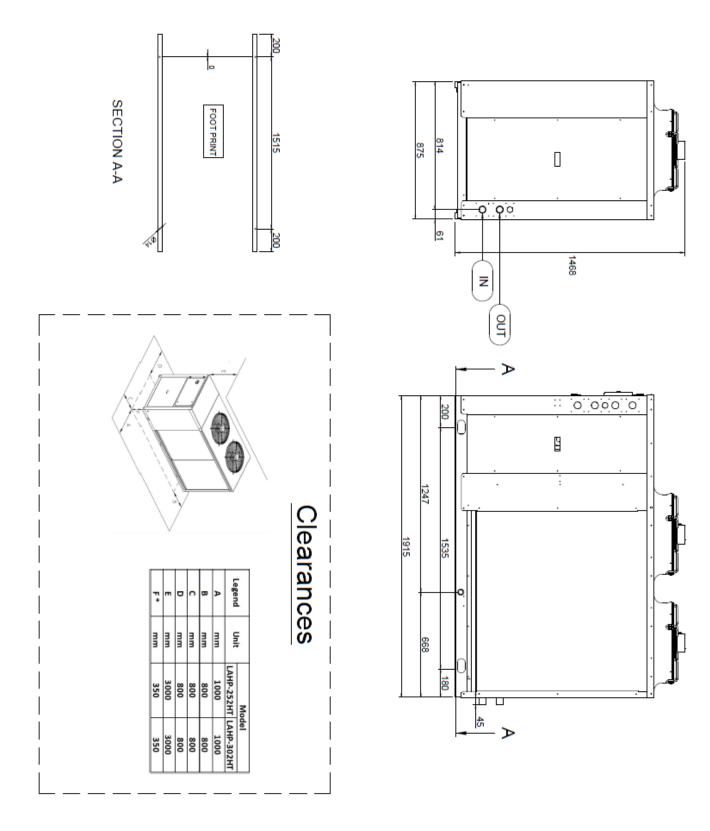
3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <a href="http://www.lochinvar.ltd.uk">www.lochinvar.ltd.uk</a>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

#### ErP and Warranty



### **Key features:**

- Up to 65°C Output
- Low noise level

### RANGE AMICUS AIR TO WATER HEAT PUMPS

### Model LAHP-302HT

AIVILUS AIK TO WATER HEAT POIVIL	r3	LARF-SUZRI
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	30
Total Power input (EN14511) <sup>1</sup>	kW	6.8
COP (EN14511) <sup>1</sup>	W/W	4.39
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		3.87
Seasonal Efficiency Low temperature	%	151.8
Energy Label Rating High temperature		A+
SCOP High Temperature		3.14
Seasonal Efficiency High temperature	%	122.7
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	A	24
Peak input current standard unit	A	83.1
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level <sup>2</sup>	dB(A)	72
Sound pressure level <sup>3</sup>	dB(A)	40
Flow/Return connections	inch	1¼"
Nominal flow rate	L/Sec	1.43
Minimum water content in the user circuit	litre	300
DIMENSIONS		
Height	mm	1468
Depth	mm	1915
Width	mm	875
Weight	Kg	590

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

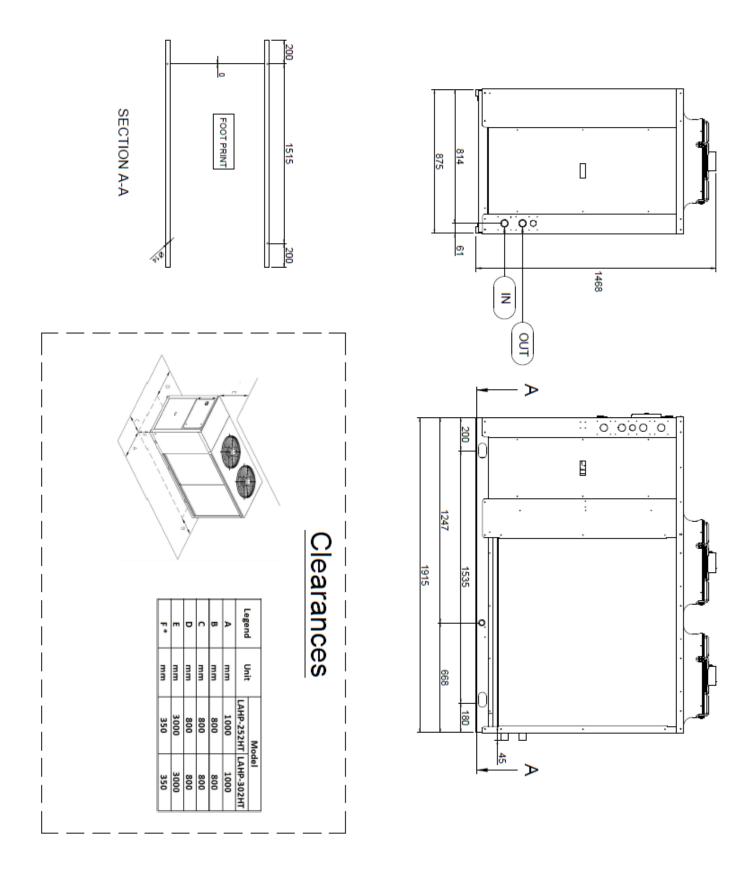
3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <u>www.lochinvar.ltd.uk</u>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

#### ErP and Warranty



### **Key features:**

- Up to 65°C Output
- Low noise level

RANGE	Model	
AMICUS AIR TO WATER HEAT PUMPS		LAHP-452HT
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	41.2
Total Power input (EN14511) <sup>1</sup>	kW	9.2
COP (EN14511) <sup>1</sup>	W/W	4.49
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		4
Seasonal Efficiency Low temperature	%	157.1
Energy Label Rating High temperature		A++
SCOP High Temperature		3.24
Seasonal Efficiency High temperature	%	126.6
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	34.2
Peak input current standard unit	А	119
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level <sup>2</sup>	dB(A)	73
Sound pressure level <sup>3</sup>	dB(A)	41
Flow/Return connections	inch	1½"
Nominal flow rate	L/Sec	2.03
Minimum water content in the user circuit	litre	412
DIMENSIONS		
Height	mm	1676
Depth	mm	2115
Width	mm	875
Weight	Kg	720

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

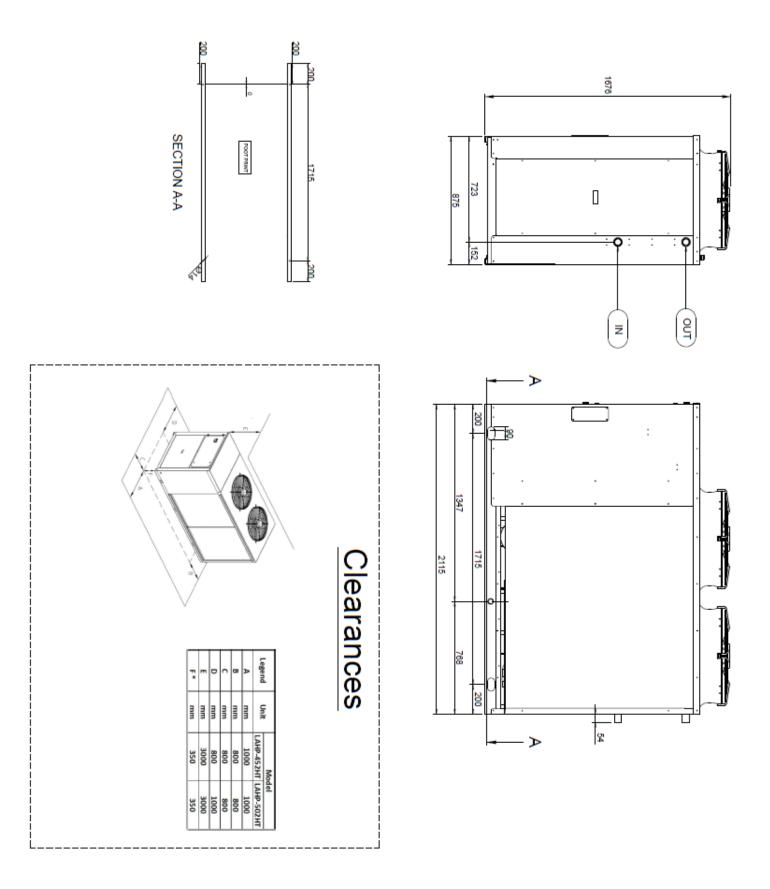
3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

**Amicus air to water heat pumps** must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <u>www.lochinvar.ltd.uk</u>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

#### ErP and Warranty



### **Key features:**

- Up to 65°C Output
- Low noise level

RANGE	Model	
AMICUS AIR TO WATER HEAT PUMPS		LAHP-452HT
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	41.2
Total Power input (EN14511) <sup>1</sup>	kW	9.2
COP (EN14511) <sup>1</sup>	W/W	4.49
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		4
Seasonal Efficiency Low temperature	%	157.1
Energy Label Rating High temperature		A++
SCOP High Temperature		3.24
Seasonal Efficiency High temperature	%	126.6
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	34.2
Peak input current standard unit	А	119
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level <sup>2</sup>	dB(A)	73
Sound pressure level <sup>3</sup>	dB(A)	41
Flow/Return connections	inch	1½"
Nominal flow rate	L/Sec	2.03
Minimum water content in the user circuit	litre	412
DIMENSIONS		
Height	mm	1676
Depth	mm	2115
Width	mm	875
Weight	Kg	720

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

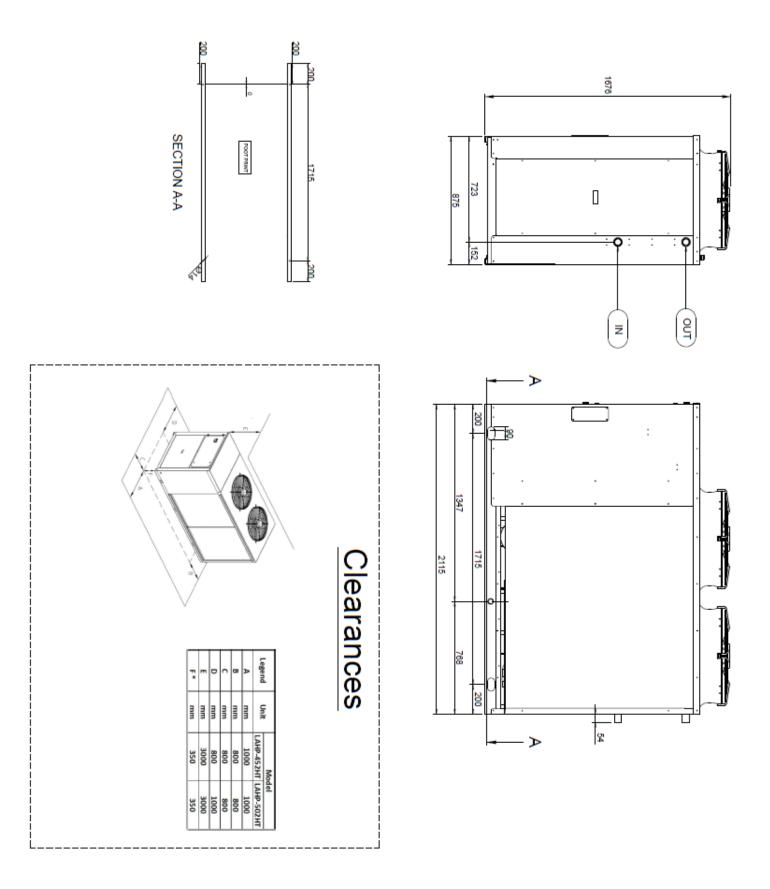
3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

**Amicus air to water heat pumps** must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <u>www.lochinvar.ltd.uk</u>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

#### ErP and Warranty



### **Key features:**

- Up to 65°C Output
- Low noise level

RANGE	Model	
AMICUS AIR TO WATER HEAT PUMP	PS	LAHP-502HT
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	49.2
Total Power input (EN14511) <sup>1</sup>	kW	11.8
COP (EN14511) <sup>1</sup>	W/W	4.16
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		3.84
Seasonal Efficiency Low temperature	%	150.6
Energy Label Rating High temperature		A++
SCOP High Temperature		3.16
Seasonal Efficiency High temperature	%	123.4
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	39.4
Peak input current standard unit	А	149
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level <sup>2</sup>	dB(A)	74
Sound pressure level <sup>3</sup>	dB(A)	42
Flow/Return connections	inch	1½"
Nominal Flow rate	L/sec	2.39
Minimum water content in the user circuit	litre	492
DIMENSIONS		
Height	mm	1676
Depth	mm	2115
Width	mm	875
Weight	Кg	730

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

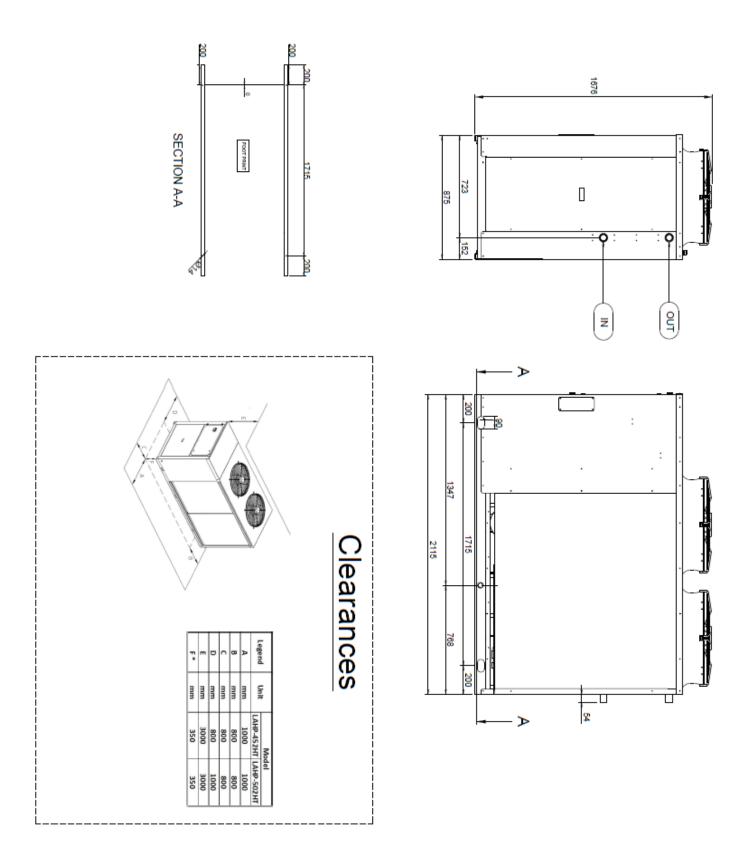
3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <a href="http://www.lochinvar.ltd.uk">www.lochinvar.ltd.uk</a>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

### ErP and Warranty



### **Key features:**

RANGE

- Up to 65°C Output
- Low noise level

## AMICUS AIR TO WATER HEAT PUMPS

### Model LAHP-602HT

AIVIICUS AIK TU WATER HEAT PUIVI	P3	LARF-002RT
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	57.4
Total Power input (EN14511) <sup>1</sup>	kW	12.9
COP (EN14511) <sup>1</sup>	W/W	4.57
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		4.21
Seasonal Efficiency Low temperature	%	165.4
Energy Label Rating High temperature		A++
SCOP High Temperature		3.38
Seasonal Efficiency High temperature	%	132
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	44.2
Peak input current standard unit	А	141
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level <sup>2</sup>	dB(A)	73
Sound pressure level <sup>3</sup>	dB(A)	41
Flow/Return connections	inch	2"
Nominal flow rate	L/sec	2.83
Minimum water content in the user circuit	litre	574
DIMENSIONS		
Height	mm	1839
Depth	mm	2905
Width	mm	1146
Weight	Kg	1080

1-Ambient air +7 heating 30/35

2 – Sound Power Level in accordance with ISO 3744

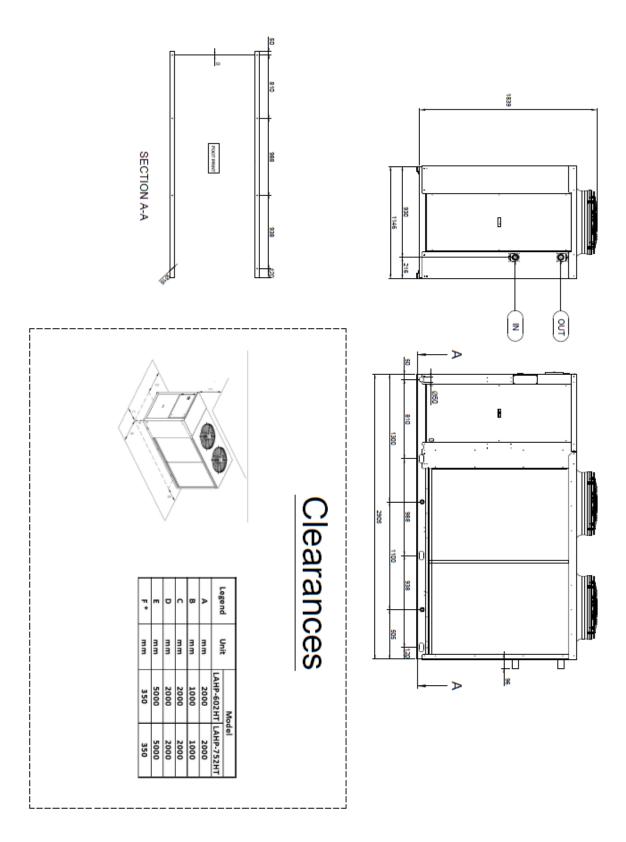
3 - Sound Pressure Level at 10mt from the unit in free field conditions in accordance with ISO3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <a href="http://www.lochinvar.ltd.uk">www.lochinvar.ltd.uk</a>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

#### ErP and Warranty



## TECHNICAL PRODUCT SUBMITTAL

### **Key features:**

- Up to 65°C Output
- Low noise level

RANGE	Model	
AMICUS AIR TO WATER HEAT PUMI	LAHP-752HT	
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	65.6
Total Power input (EN14511) <sup>1</sup>	kW	15.1
COP (EN14511) <sup>1</sup>	W/W	4.35
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		4.16
Seasonal Efficiency Low temperature	%	163.4
Energy Label Rating High temperature		A++
SCOP High Temperature		3.29
Seasonal Efficiency High temperature	%	128.6
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	54.2
Peak input current standard unit	А	168
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level <sup>2</sup>	dB(A)	73
Sound pressure level <sup>3</sup>	dB(A)	41
Flow/Return connections	inch	2"
Nominal flow rate	L/sec	3.33
Minimum water content in the user circuit	litre	656
DIMENSIONS		
Height	mm	1839
Depth	mm	2905
Width	mm	1146
Weight	Kg	1090

1-Ambient air +7 heating 30/35

2 – Sound Power Level in accordance with ISO 3744

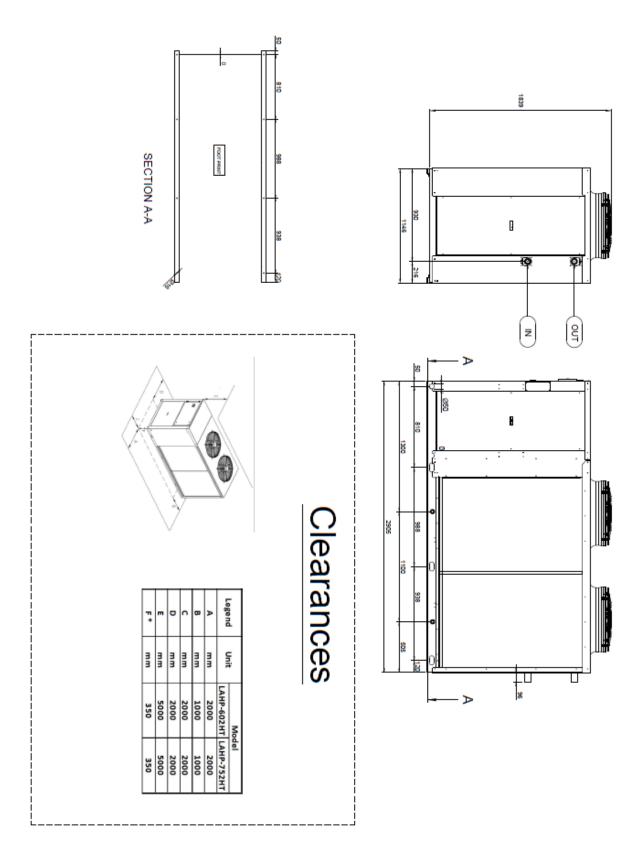
3 – Sound Pressure Level at 10mt from the unit in free field conditions in accordance with ISO3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <a href="http://www.lochinvar.ltd.uk">www.lochinvar.ltd.uk</a>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

#### ErP and Warranty



### **Key features:**

- Up to 65°C Output
- Low noise level

### RANGE

### AMICUS AIR TO WATER HEAT PUMPS

### Model LAHP-852HT

AIVIICUS AIK TO WATEK HEAT POIVII	r5	LATT -052TT
EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	79.9
Total Power input (EN14511) <sup>1</sup>	kW	17.8
COP (EN14511) <sup>1</sup>	W/W	4.49
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		4.04
Seasonal Efficiency Low temperature	%	158.7
Energy Label Rating High temperature		A++
SCOP High Temperature		3.26
Seasonal Efficiency High temperature	%	127.3
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	67.6
Peak input current standard unit	А	209
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level <sup>2</sup>	dB(A)	74
Sound pressure level <sup>3</sup>	dB(A)	42
Flow/Return connections	inch	2"
Nominal flow rate	L/sec	3.95
Minimum water content in the user circuit	litre	799
DIMENSIONS		
Height	mm	1892
Depth	mm	2905
Width	mm	1146
Weight	Kg	1140

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

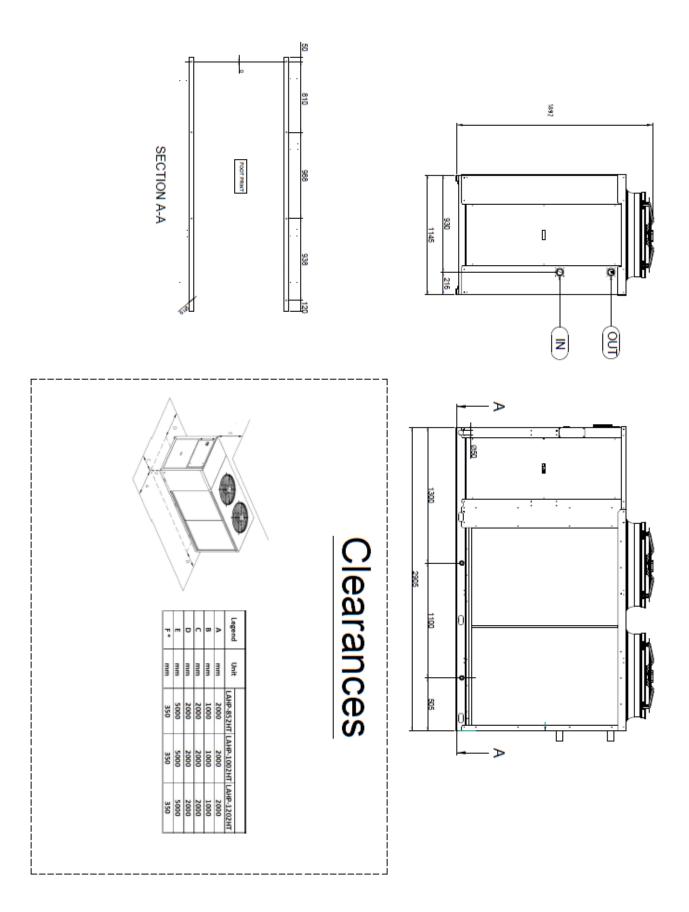
3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <u>www.lochinvar.ltd.uk</u>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

### ErP and Warranty



### RANGE

### **AMICUS AIR TO WATER HEAT PUMPS**

### Model LAHP-1002HT

EFFICIENCY DATA -Part L2		
Heating Capacity (EN14511) <sup>1</sup>	kW	87.2
Total Power input (EN14511) <sup>1</sup>	kW	19.4
COP (EN14511) <sup>1</sup>	W/W	4.49
EFFICIENCY DATA -ErP and Energy Label		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		4.06
Seasonal Efficiency Low temperature	%	159.5
Energy Label Rating High temperature		A++
SCOP High Temperature		3.33
Seasonal Efficiency High temperature	%	130
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	68.6
Peak input current standard unit	А	210
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level 2	dB(A)	75
Sound pressure level 3	dB(A)	43
Flow/Return connections	inch	2"
Nominal Flow rate	L/sec	4.25
Minimum water content in the user circuit	litre	872
DIMENSIONS		
Height	mm	1892
Length	mm	2905
Depth	mm	1146
Weight	Kg	1170

1-Ambient air +7 heating 30/35

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <a href="http://www.lochinvar.ltd.uk">www.lochinvar.ltd.uk</a>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

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#### ErP and Warranty

### **Key features:**

RANGE

- Up to 65°C Output
- Low noise level
- COP up to 4.64

## AMICUS AIR TO WATER HEAT PUMPS

### Model LAHP-1202HT

Heating Capacity (EN14511) <sup>1</sup>	kW	100.7
Total Power input (EN14511) <sup>1</sup>	kW	23.5
COP (EN14511) <sup>1</sup>	W/W	4.29
EFFICIENCY DATA -ErP and Energy Label	· · · · · · · · · · · · · · · · · · ·	
Energy Label Rating Low temperature		A++
SCOP Low Temperature		3.93
Seasonal Efficiency Low temperature	%	154
Energy Label Rating High temperature		A++
SCOP High Temperature		3.25
Seasonal Efficiency High temperature	%	126.9
GENERAL		
Refrigerant		R410A
Power supply	V/Ph/Hz	415/3+N/50
Maximum input current standard unit	А	77.4
Peak input current standard unit	А	208
Peak input current unit with soft start option	А	143
Fans	no	2
Compressors/refrigerant circuits	no	2/1
Sound power level <sup>2</sup>	dB(A)	75
Sound pressure level <sup>3</sup>	dB(A)	43
Flow/Return connections	inch	2"
Nominal flow rate	L/sec	4.89
Minimum water content in the user circuit	litre	1007
DIMENSIONS		
Height	mm	1892
Depth	mm	2905
Width	mm	1146
Weight	Kg	1250

1-Ambient air +7 heating 30/35

2-Sound power level in accordance with ISO3744

3-Sound pressure level at 10mtr from the unit in free field conditions in accordance with ISO 3744

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of <a href="http://www.lochinvar.ltd.uk">www.lochinvar.ltd.uk</a>

Particular attention should be made to:-

- Dimensions and clearances
- Unit start up
- Water quality

#### ErP and Warranty

